Overview

Models

LSI 8888ELP 8-port SAS HW RAID Card GE258AA

Introduction

The LSI SAS 8888ELP eight-port, host bus adapter is a high bandwidth storage option, ideal for storage connectivity of SAS drives in high performance workstations.

Keeping electronic data online and available is essential to running a successful business. Making sure that data is protected - while remaining instantly accessible - requires faster, smarter solutions. The MegaRAID SAS 8888ELP, a second generation SAS RAID product from LSI, addresses these demands and boasts being the most powerful internal RAID solution we've offered to date. The MegaRAID SAS 8888ELP adapter features the LSI SAS1078 IC, a powerful I/O storage engine that transparently performs all the data protection, data checking, and restoration tasks. Flexibility best summarizes the features of the SAS 8888ELP. With selectable connectors, one card serves three deployment needs. Users can choose two connectors: two internal, two external or one each. System builders can attach up to 32 disks; choose high performance SAS disks or high capacity SATA drives - or a combination of both - for greater system design flexibility. Finally, this adapter features a replaceable 512MB DDR II mini DIMM cache module. An investment in the 8888ELP brings piece of mind, with its unique ability to operate with both internal or external disk equipment.

The MegaRAID SAS 8888ELP is designed to excel in both high I/O transaction and high bandwidth processing. With an integrated 500MHz PowerPC and industry leading 667MHz write cache, and x8 PCI express, the 8888ELP delivers impressive performance numbers - over 1.5GB/s through-put - allowing streaming video or data backup applications run faster than ever with 1MB stripe configurations.

NOTE: HP does not support h/w RAID configurations using SATA drives with the 8888ELP or any SATA RAID with Linux

Key Features and Benefits

- 3Gb/s per port, 8 ports
- Connects to both SAS/SATA drives
- Wide Bus support with aggregate bandwidth of 1.5GB/s
- Low-profile form factor
- 667Mhz DDRII cache (512MB)

HW XOR (eXclusive OR) RAID 5 write parity calculations off load the system processor for improved performance.

- Connects up to 32 internal devices
- Supports major Operating Systems

Compatibility

The LSI SAS 8888ELP HBA is compatible with the HP xw4600, xw6600, xw8600, Z400, Z600, Z800 and xw9400 workstations.

Service and Support

The LSI SAS 8888ELP HBAs have a one-year limited warranty or the remainder of the warranty of the HP product (which ever is longer) in which they are installed. Technical support is available seven days a week, 24 hours a day by phone, as well as in online support forums. Certain restrictions and exclusions apply.

Technical Specifications

PCI Bus	PCI-Express x8 lanes	
PCI Modes	Bus Master DMA	
RAID Levels	RAID 0, 1, and 5 RAID spans 10 and 50	
PCI Data Burst Transfer Rate	Up to 3 Gb/s per port	
Full Duplex	Up to 1.5 GB/s	
PCI Voltage	+3.3V Add-in Card	
PCI Power	19.2 Watts Maximum	
Certification Level	PCI-Express 1.0a	
IO Bus	Eight 3 Gb/s SAS/SATA ports	
Internal Connectors	Two SAS SFF8087 x4	
External Connectors	Two SAS SFF8088 x4	
Maximum Number of SCSI Devices	32	
LED Indicators	Connector LEDs indicate whether the internal or external connector is active for ports 0-3 and 4-7	
Temperature	Operating	32° to 122° F (0° to 50° C)
	Storage	-49° to +221° F (-45° to +105° C)
Relative Humidity	Operating	5% to 90% non-condensing
	Storage	5% to 90% non-condensing
Compliances	EN55022, EN50082, EN60950; FCC Class A, Class B; UI1950; UL; CSA C22.2; VCCI; AS3548; BSMI; MIC	
Operating System Support	Microsoft® Windows® XP Professional, XP Professional 64-bit Genuine Windows Vista® Business 32-bit Genuine Windows Vista® Business 64-bit Red Hat Enterprise Linux(RHEL) WS3, WS4 and 5 Desktop/Workstation Novell SLES 9, SLE 10 & 11	
Kit Contents	Controller card, driver CD, LED cables, user documentation and warranty card.	

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